

Safety Data Sheet
Conforms to OSHA Hazard Communication Standard (HCS) 29CFR
1910.1200

Printing date 04/18/2019

Version number 1

Reviewed on 04/18/2019

1 Identification

- **Product identifier**

- **Product name:** [REDACTED]

Relevant identified uses of the substance or mixture and uses advised against

- **Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

- **Emergency telephone number:**

For Chemical Emergency ONLY (in the case of fire, leak, spill, exposure or accident) call CHEMTREC at [REDACTED]
or CHEMTREC [REDACTED] For all other emergencies call [REDACTED]
Emergency Control Room [REDACTED]

2 Hazard(s) identification

- **Classification of the substance or mixture**

Flam. Liq. 4	H227 Combustible liquid.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2B	H320 Causes eye irritation.
STOT SE 2	H371 May cause damage to organs.
STOT SE 3	H336 May cause drowsiness or dizziness.
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

- **OSHA/HCS status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

- **Label elements**

- **Hazard pictograms**



GHS07 GHS08 GHS09

- **Signal word** Danger

- **Hazard-determining components of labeling:**

(Contd. on page 2)

Safety Data Sheet
Conforms to OSHA Hazard Communication Standard (HCS) 29CFR
1910.1200

Printing date 04/18/2019

Version number 1

Reviewed on 04/18/2019

Product name: [REDACTED]

(Contd. of page 1)

· Hazard statements

Combustible liquid.
 Causes skin and eye irritation.
 May cause damage to organs.
 May cause drowsiness or dizziness.
 May be fatal if swallowed and enters airways.
 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P210 Keep away from flames and hot surfaces. – No smoking.
 P260 Do not breathe dust/fume/gas/mist/vapors/spray.
 P264 Wash thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 If swallowed: Immediately call a poison center/doctor.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:**· NFPA ratings (scale 0 - 4)**

Health = 1
 Fire = 2
 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

Health = *1
 Fire = 2
 Reactivity = 0

· Other hazards No information available.**· % of unknown toxicity:** Not applicable.

3 Composition/information on ingredients

· Dangerous components:

Asp. Tox. 1, H304
 Aquatic Chronic 2, H411
 Skin Irrit. 2, H315; STOT SE 3, H336

(Contd. on page 3)

Safety Data Sheet
Conforms to OSHA Hazard Communication Standard (HCS) 29CFR
1910.1200

Printing date 04/18/2019

Version number 1

Reviewed on 04/18/2019

Product name: [REDACTED]

(Contd. of page 2)

4 First-aid measures

- **Description of first aid measures**

- **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

- **Inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

If person is facing any breathing problem.

- **Skin Contact:**

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Remove contaminated clothing and shoes.

Wash clothing before reuse.

Clean shoes thoroughly before reuse.

- **Eye Contact:**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. Then consult a doctor.

- **Ingestion:**

Wash out mouth with water. Drink plenty of water and provide fresh air. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

- **Most important symptoms and effects, both acute and delayed**

May cause skin irritation.

Causes damage to organs.

Causes eye irritation.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness, nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness

- **Indication of any immediate medical attention and special treatment needed**

Show this safety data sheet to the doctor in attendance. Treat symptomatically.

5 Fire-fighting measures

- **Extinguishing media** In case of fire use the following suitable extinguishing agent.

- **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 4)

Safety Data Sheet
Conforms to OSHA Hazard Communication Standard (HCS) 29CFR
1910.1200

Printing date 04/18/2019

Version number 1

Reviewed on 04/18/2019

Product name: [REDACTED]

(Contd. of page 3)

· For safety reasons unsuitable extinguishing agents:

Water with full jet

Water jet

· Special hazards arising from the substance or mixture No further relevant information available.**· Advice for firefighters**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

· Protective equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 Accidental release measures**· Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective clothing.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

Ensure adequate ventilation

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Stop leak if without risk.

Move containers from spill area.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage**· Handling:****· Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Put on appropriate personal protective equipment .

Do not ingest.

Avoid contact with eyes, skin and clothing.

Avoid breathing vapour or mist.

· Information about protection against explosions and fires: Keep respiratory protective device available.**· Conditions for safe storage, including any incompatibilities** Shelf life two years from the date of manufacturing.

(Contd. on page 5)

Safety Data Sheet
Conforms to OSHA Hazard Communication Standard (HCS) 29CFR
1910.1200

Printing date 04/18/2019

Version number 1

Reviewed on 04/18/2019

Product name: [REDACTED]

(Contd. of page 4)

- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
 The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Exposure controls**
- **Appropriate engineering controls:**
 Use local exhaust ventilation or other engineering control to maintain airborne levels below exposure limit requirement or guidelines.
 If there are no applicable exposure limit requirement or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Store protective clothing separately.
 Avoid contact with the eyes and skin.
- **Breathing equipment:**
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
 Where there is potential for airborne exposures, wear NIOSH approved respiratory protection.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 6)

Safety Data Sheet
Conforms to OSHA Hazard Communication Standard (HCS) 29CFR
1910.1200

Printing date 04/18/2019

Version number 1

Reviewed on 04/18/2019

Product name: [REDACTED]

(Contd. of page 5)

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

Appearance:

- **Form:**

- **Color:**

- **Odor:**

- **Drip point**

Pour point

- **Flash point:**

- **Flammability (Liquid):**

- **Auto ignition temperature**

- **Relative density at 15.6 °C (60.1 °F)**

- **Partition coefficient (n-octanol/water)**

- **Viscosity:**

Dynamic:

Kinematic at 40 °C (104 °F):

10 Stability and reactivity

- **Reactivity** Under normal conditions of storage and use, hazardous reactions will not occur.

- **Chemical stability** The product is stable under storage at normal ambient temperature.

- **Possibility of hazardous reactions** No dangerous reactions known.

- **Conditions to avoid** No further relevant information available.

- **Incompatible materials:** [REDACTED]

- **Hazardous decomposition products:**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

(Contd. on page 7)

Safety Data Sheet
Conforms to OSHA Hazard Communication Standard (HCS) 29CFR
1910.1200

Printing date 04/18/2019

Version number 1

Reviewed on 04/18/2019

Product name: [REDACTED]

(Contd. of page 6)

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral	LD50	>5,000 mg/kg bw (Rat)
Dermal	LD50	>5,000 mg/kg bw (Rabbit)
Inhalative	LC50	>20 mg/L (Rat)

· Primary irritant effect:

· **on the skin:** May cause skin irritation.

· **on the eye:** Causes serious eye irritation.

· **Respiratory/ Skin sensitization:** No sensitizing effects known.

· **Germ cell mutagenicity:** No known significant effects or critical hazards.

· **Carcinogenicity:** Substance has not been classified for carcinogenicity

· **Reproductive toxicity:** No known significant effects or critical hazards.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

· NTP (National Toxicology Program)

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

· **Single dose toxicity:** May cause damage to organs.

· **Repeated Dose toxicity** No known significant effects or critical hazards.

· **Aspiration hazard** May be fatal if swallowed or enters airways.

12 Ecological information

· **Toxicity** This product is toxic to aquatic life with long lasting effects.

· Aquatic toxicity:

[REDACTED]		
EC50 (48 h)	>1 mg/L	(Daphnia)
LC50 (96 h)	>1 mg/L	(Fish)

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Results of PBT and vPvB assessment** No data available

(Contd. on page 8)

Safety Data Sheet
Conforms to OSHA Hazard Communication Standard (HCS) 29CFR
1910.1200

Printing date 04/18/2019

Version number 1

Reviewed on 04/18/2019

Product name: [REDACTED]

(Contd. of page 7)

· **Other adverse effects** No further relevant information available.**13 Disposal considerations**· **Waste treatment methods**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

· **Uncleaned packagings:**· **Recommendation:** Disposal must be made according to official regulations.**14 Transport information**· **UN-Number**· **DOT**

NA1993

· **ADR, IMDG, IATA**

UN3082

· **UN proper shipping name**· **DOT**COMBUSTIBLE LIQUID, N.O.S. ([REDACTED])
[REDACTED] MARINE POLLUTANT· **ADR**3082 Environmentally hazardous substances, liquid, n.o.s. [REDACTED]
[REDACTED]· **IMDG**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
[REDACTED], MARINE
POLLUTANT· **IATA**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
[REDACTED]

(Contd. on page 9)

Safety Data Sheet
Conforms to OSHA Hazard Communication Standard (HCS) 29CFR
1910.1200

Printing date 04/18/2019

Version number 1

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Product name: [REDACTED]

(Contd. of page 8)

· **Transport hazard class(es)**· **DOT**

· **Class** 3 Combustible liquids
 · **Label** 3

· **ADR**

· **Class** 9 (M6) Miscellaneous dangerous substances and articles
 · **Label** 9

· **IMDG, IATA**

· **Class** 9 Miscellaneous dangerous substances and articles
 · **Label** 9

· **Packing group**

· **DOT, ADR, IMDG, IATA** III

· **Environmental hazards:** Product contains environmentally hazardous substances: [REDACTED]

· **Special marking (ADR):** Symbol (fish and tree)

· **Special marking (IATA):** Symbol (fish and tree)

· **Special precautions for user** Warning: Miscellaneous dangerous substances and articles

· **Danger code (Kemler):** 90

· **EMS Number:** F-A,S-F

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT** Non-bulk: Not Regulated
 Non-bulk: A maximum capacity of 450 L (119 gallons)

(Contd. on page 10)

Safety Data Sheet
Conforms to OSHA Hazard Communication Standard (HCS) 29CFR
1910.1200

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Version number 1

Reviewed on 04/18/2019

Product name: [REDACTED]

(Contd. of page 9)

· **Remarks:** Special marking with the symbol (fish and tree).

· **IMDG**

· **Limited quantities (LQ)** 5L

15 Regulatory information

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):** Not determined.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients are listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

· **please note:**

Based on EPA's assessment, this substance may cause specific target organ toxicity, skin irritation, and eye irritation.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 11)

Safety Data Sheet
Conforms to OSHA Hazard Communication Standard (HCS) 29CFR
1910.1200

Printing date 04/18/2019

Version number 1

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Product name: [REDACTED]

(Contd. of page 10)

16 Other information

File Name: [REDACTED]

Superseded SDS date: Not Applicable

Change History: Not Applicable

· **Note** Conforms to UNGHS Rev.3(2009)· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

APF = Assigned protection factor

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

IOELV: Indicative Occupational Exposure Limit Values

Flam. Liq. 4: Flammable liquids – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· **Disclaimer:**

The data and recommendations presented in this data sheet concerning the use of our product and the materials contain there in are believed to be accurate and are based on information which is considered reliable as of the date hereof. However, the customer should determine the suitability of much material for his purpose before adopting them on a commercial scale. Since the use of our product by others is beyond our control, no guarantee, express or implied, is made and no responsibility assumed for the use of this material or the results to be obtained there from. Information on this document is furnished for the purpose of compliance with Government Health and Safety Regulations and shall not be used for any other purposes. Moreover, the recommendations contained in this Safety Data Sheet are not to be constructed as a license to operate under, or a recommendation to infringe, any existing patents, nor should they be confused with state, municipal or insurance requirements, or with national safety codes.